FEB 1 7 2034

PTO/SB/08A (02-03)

435/5

6001572

435/91.2

435/69,7

Approved for use through 04/30/2003. OMB 0551-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
as are required to respond to a collection of information unless it contains a valid OMB control number.

STOLDENT Substitute for form 1449/PTO

Sheet

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known Application Number 09/832,464 Filing Date April 11, 2001 First Named Inventor Piet A.J. de Boer, et al. Art Unit 1653 **Examiner Name** Bugaisky, G.E. 27708/04087 Attorney Docket Number

U. S. PATENT DOCUMENTS Examine Cite No.1 Document Number **Publication Date** Name of Patentee or Pages, Columns, Lines, Where MM-DD-YYYY Applicant of Cited Document Relevant Passages or Relevant Number-Kind Code² (Fknown) Figures Appear 4,016,043 1 04-05-1977 Schuurs, et al. 2 4,018,653 04-19-1977 Mennen 4,434,653 01-03-1984 Bohn, et al. RECEIVED 436/534 4,568,649 4 02-04-1986 Bertoglio-Matte 5 4,683,195 Mullis, et al. 07-28-1987 FEB 2 5 2004 4,683,202 Mullis 6 07-28-1987 US-5,310,663 05-10-1994 Dobeli, et al. US-US-US-US-US-US-US-US-US-US-TIS. US

Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)	MM-DD-YYYY	•	Or Relevant Figures Appear	T6
α Λ						<u> </u>
(1)(A)(1)	8	WO 96/14403	05-17-1996	GENIS HF		
U_{\perp}						
		*				
						Π

	_ ^ 4				
Examiner	1/2/1		Date	111.10	,
Signature	JAN STAN		Considered	1 411/14	
	1 /11/200		i	1 1 1 1 0 1	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. Applicant is to place a check mark here if English tanguage Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

PTO/SB/08B (02-03)
Approved for use through 04/30/2003. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE uired to respond to a collection of information unless it contains a valid OMB control number. Under the Paperwork Reduction Act Complete if Known Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Application Number 09/832,464 Filing Date April 11, 2001 **First Named Inventor** Piet A.J. de Boer, et al. Art Unit 1653

(Use as many sheets as necessary)

Examiner Name Bugaisky, G.E.

Sheet **Attorney Docket Number** 4 of 27708/04087

		NON PATENT LITERATURE DOCUMENTS	_
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
ab.	/ 9	Anderson and Young, Quantitative Filter Hybridization, in Nucleic Acid Hybridization, Hames, et al., [eds.] (1985 pp. 73-111. Washington If L press	0
gg	10	Ausubel, et al., "Interaction Trap/Two-Hybrid System to Identify Interaction Proteins," Current Protocols in Molecular Biology (John Wiley & Sons) pp. 13.14.1-13.14.14 (1994).	-
lf V	11	Beall, B., et al., "Cloning and characterization of bacillus subtilis homologs of Escherichia coli Cell Division Genes ftsZ and ftsA," Journal of Bacteriology, 170:4855-4864 (1989).	
GA V	12	Bi, E., et al., "Cell Division Inhibitors SulA and MinCD Prevent Formation of the FtsZ Ripg," Journal of Bacteriology, 175:1118-1125 (1993).	
91b.	√ 13	Blanar, M.A., and Rutterm W.J., "Interaction Cloning: Identification of helix-loop-helix Zipper Protein that Interacts with cFos," Science 256:1014-1018 (1992).	Œ
40	/-14	Brooks, G.F., et al, Jawatz, Melnick & Adelberg's Microbiology, 19th ed., Appleton & Lange, Norwalk, CT (1991), pp. 149-179.	
BV	15	Byrne, C. et al., "DNA sequences of the cysK regions of Salmonella typhimurium and Escherichia coli and linkage of the cysK regions to ptsH," Journal of Bacteriology, 170:3150-3157 (1988).	· -
Br	16	Callard, R.E. and Gearing, A.J.H. [eds.], IL-1. in The Cytokine FactsBook, p. 31, Academic Press Inc. (1994).	
Br	17	Cam, K., et al., "SigmaS-dependent overexpression of ftsZ in Escherichia coli K-12 rpoB mutant that is resistant to the division inhibitors DicB and DicF RNA," Molecular and General Genetics 248:190-194 (1995).	
	18	Chang-Yeh, A., et al., "Identification of a novel murine IAP-promoted placenta-expressed gene," Nucleic Acids Res. 19(13):3667-3672 (1991).	

Examiner	Cabe (V	Date	411/24
Signature	EXPROS	Considered	1 411109

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

PTO/SB/08B (02-03) Approved for use through 04/30/2003. OMB 0651-0031 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

e required to respond to a collection of information unless it contains a valid OMB control number.

Under the Paperwork Reduction Complete if Known DANCHA! Substitute for form 1449/PTO **Application Number** 09/832,464 Filing Date INFORMATION DISCLOSURE April 11, 2001 STATEMENT BY APPLICANT First Named Inventor Piet A.J. de Boer, et al. Art Unit 1653 (Use as many sheets as necessary) **Examiner Name** Bugaisky, G.E. **Attorney Docket Number** 4 27708/04087 Sheet of

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
p ~	/ 19 /	de Boer, P.A.J., et al., "Isolation and Properties of minB, a Complex Genetic Locus in Correct Placement of the Division Site in Escherichia coli," Journal of Bacteriology, 170:2106-2112 (1988).	
28. V	20	Douillard and Young, Basic Facts about Hibridomas, in Compendium of Immunology, Vol. II, ed. by Schwartz, pp. 119-141 (1981).	
LAN	21	Fleischmann, R. et al., "Whole-genome random sequencing and assembly of Haemophilus influenza Rd," Science 269:496-512 (1995)	
200	/22	Harry, E., at al., "Cloning and expression of a Bacillus subtilis division initiation gene for which a homolog has not been identified in another organism," Journal of Bacteriology, 171:6835-6839 (1989).	
B	23	Higashitani, A., et al., "A Cell Division SulA of Escherichia coli Directly Interacts with FTSZ Through GTP Hydrolysis," Biochemical and Biophysical Research Communications, 209:198-204 (1995).	
4	24	Ishino, Y., et al., "Nucleotide sequence of the lig gene and primary structure of DNA ligase of Escherichia coll," Molecular and General Genetics, 204:1-7 (1986).	
ild v	25	Joklik, W.K., et al., [eds.], Zinsser Microbiology, 18th ed., Appleton-Century-Crofts, Norwalk, CT, (1984) p. 191-231.	
96 V	26	Jorgensen, et al., Manual of Clinical Biology, "Antimicrobial Suspectibility Testing: General Considerations," Murray, et al., [eds.], 6th ed., ASM Press, Washington, D.C. 1995 pp. 1277-1280.	3 ,
98	27	Kohler and Milstein, "Continuous culture of fused cells screting antibody or predefined specifity," Nature, /256:495-497 (1975).	ý
98 V	28	Kohler and Milstein, "Derivation of specific antibody-producing tissue culture and tumor lines by cell fusing," European Journal of Immunology, 6:511-519 (1976).	

•	<i>[-</i>]	 	
Examiner	ORBIGE	Date	11/2/12/04
Signature	My Sun	 Considered	4/2/2001

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

considered, include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of Information is required by 37 CFR 1.98. The Information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

O 1 P E 3 C 25

PTO/SB/08B (02-03) Approved for use through 04/30/2003. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Inder the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

	e for form 1449/PTC	13	TOANEINAN	e required to respond to a collection of information unless it contains a valid OMB control number. Complete if Known			
Substitut	e ior iorm 1443/P1C	-8-		Application Number	09/832,464		
INFO	ORMATIO	N DIS	CLOSURE	Filing Date	April 11, 2001		
STA	TEMENT	BY A	PPLICANT	First Named Inventor	Piet A.J. de Boer, et al. RECEIV		
				Art Unit	1653		
(Use as many sheets as necessary)				Examiner Name	Bugaisky, G.E. FEB 2 5 2		
Sheet	4	of	4	Attorney Docket Number	27708/04087		

		NON DATEDIO LATED ATUDE DOCUMENTS	
Examiner Initials*	Cite No. ¹	NON PATENT LITERATURE DOCUMENTS Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
Hp:~	/29	Margolin, W., et al., "Cloning and Characterization of a Rhizobium meliloti Homolog of the Escherichia coli Cell Division Gene ftsZ," Journal of Bacteriology, 173(18):5822-5830 (1991)	
2h ~	30	Margolin, W., et al., "Rhizobium meliloti contains a novel second homolog of the cell division gene ftsZ," Journal of Bacteriology, 1762033-2043 (1994).	
20°L	31	Meador and Kennell, "Cloning and sequencing the gene encoding Escherichia coli ribonuclease I: exact physical mapping using the library," Gene 95:1-7 (1990).	·
18·V	32	Morch, et al., "Overlapping open reading frames revealed nu complete nucleotide sequencing of turnip yellow mosaic virus genome RNS," Nucleac Acid Res. 16:6157-72 (1988).	
170	33	Nishimura, A., "The new gene controlling the frequency of cell division per round of DNA replication in Escherichia coli," Molecular and General Genetics 215:286-293 (1989).	
AN	34	Reading, C.L., "Theory and methods for immunization in culture and monoclonal antibody production," Journal of Immunological Methods 53:261-291 (1982).	
98 r	/ ₃₅	Ruberti, I., et al., "A class of gyrB mutants substantially unaffected in DNA topology, suppressed the Escherichia coli K-12 ftsZ84 mutation," Molecular Microbiology 5(5):1065-1072 (1991).	
H	36	Sessegolo, J.F., et al., "Distribution of Serotypes and Anitimicrobial Resistance of Strepoccocus pneumoniae Strains Isolated in Brazil; From 1988 to 1992," Journal of Clinical Microbiology, 32:906-911 (1994)	
960	37	Vinella, D., et al., "Penicillin-Binding Protein 2 Inactivation in Escherichia coli Results in Cell Division Inhibition, Which is Relieved by FtsZ Overexpression," Journal of Bacteriology, 175:6704-6710 (1993).	
91/2/	38	Ward, J., et al., "A lac-ftsZ gene fusion is an analog of cell division inhibitor sulA," Journal of Bacteriology, 157:815-820 (1984).	

Examiner	altrical	Date	4/2/01
Signature	JAN843	Considered	71404

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of Information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.